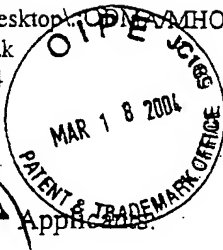


@PFDesktop\...AMHODMA/HBSR05; iManage; 456090; 1
DJT/nzk
2/25/04

PATENT APPLICATION
Attorney's Docket No.: 2479.2179-002



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

COPY FOR CONTINUING APPLICATION

John E. Hoffmann, George Rodney Nelson, Jr., John A. Regnier and
Kevin P. Johnson

Application No.: 10/675,583 Group: 2821
Filed: September 30, 2003 Examiner: Not assigned
Confirmation No.: 9955
For: Directional Antenna Physical Layer Steering for WLAN

| | |
|--|-----------------------|
| CERTIFICATE OF MAILING | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 | |
| on <u>3/16/04</u> | <u>Nadine Z. Kush</u> |
| Date | Signature |
| <u>Nadine Z. Kush</u> | |
| Typed or printed name of person signing certificate | |

PETITION UNDER 37 C.F.R. § 1.47(a) AND TRANSMITTAL
OF DECLARATION

Mail Stop MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

03/19/2004 HGUTEMA1 00000021 10675583

03 FC:1460

130.00 DP

Sir:

InterDigital Communications Corp., John E. Hoffmann, John A. Regnier and Kevin P. Johnson hereby petition that the above-captioned application be accepted under 37 C.F.R. § 1.47(a). The petition fee required under 37 C.F.R. § 1.17(h) is provided herewith.

One of the inventors, George Rodney Nelson, Jr. has not returned a signed Declaration for the above-referenced patent application despite attempts.

On September 30, 2003, the application materials for the above-referenced application, including the specification, claims, abstract, and informal drawings ("the application papers"), were deposited with the U.S. Postal Service under 37 C.F.R. § 1.10.

On October 22, 2003 I forwarded a copy of all application papers including a Declaration to Mr. George Rodney Nelson, Jr. at his last known address. On February 3, 2004, I forwarded a "Reminder" copy of these documents a second time to Mr. George Rodney Nelson,

Jr. Both sets of documents were sent by First Class Mail. Copies of my letters are attached hereto as Exhibits A and B.

Mr. Nelson, as of this date has still not returned the executed documents despite attempts to obtain his signature.

The last known address of Mr. George Rodney Nelson, Jr. is:

207 Sykes Loop Drive
Merritt Island, Florida 32953

The executed Declaration for the other inventors, John E. Hoffman, John A. Regnier and Kevin P. Hoffman is being submitted herewith in response to the Notice to File Missing Parts dated December 24, 2004. A copy of Form PTO-1533 is enclosed.

The attached check in the amount of \$1,140.00 includes payment of the filing fees, surcharge, and fee required under 37 C.F.R. §1.17(h).

Please charge any additional fees due in this matter to Applicants' Attorney Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH AND REYNOLDS, P.C.

By 

David J. Thibodeau, Jr.
Registration No. 31,671
Telephone: (978) 341-0036
Facsimile: (978) 341-0136

Concord, Massachusetts 01742-9133

Dated: 3/16/04



COPY

Initials: DJT/MJB/dab

Docket No.: 2479.2179-013

Date: June 9, 2006

This acknowledges receipt of ☒ CONTINUATION ☐ DIVISION 53(b) as follows:

- ☒ Application Transmittal Express Mail Label No. EV 214956817 US
☒ Fee Transmittal w/copy ☐ Statement of S/E Status
☒ Specification - Total pages 18 ☒ Drawings - Total sheets 14
☐ Copy of executed Declaration for Patent Application - Total pages ☐
☐ Executed POA by ☐ Assignee ☐ Applicant/Inventor - No. of Docs. ☐
☐ Statement under 37 CFR §3.73(b) ☐ Priority Claim under 35 USC §119, sep. paper ☐
☒ Copy of POA and 3.73(b) from prior case ☐ Includes Assignment document
☒ Copy of executed Declaration from prior Application No. 10/675,583
☐ Assignment w/Recordation Sheet w/postcard
☐ Sequence Listing in Paper & CRF, Statement 1.821 (f)
☐ Information Disclosure Stmt. ☐ w/copy
☐ Form PTO-1449 pp ☐ with references as noted in 1449
☒ Other Remarks/ Change of Correspondence Address; Copy of Petition and Transmittal of Declaration w/Exhibits A & B from prior appl'n. Copy of Decision Granting Petition
☒ Check (\$ 1100.00) ☐ Authorization to Charge all Fees

113260 U.S. PTQ
11/450091



060906

Applicants: John E. Hoffmann, et al.

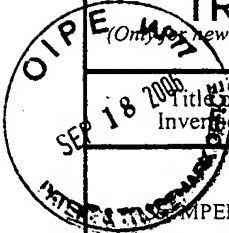
☒ Continuation ☐ Division of Application No. 10/675,583

Title: DIRECTIONAL ANTENNA.....

Date received by the PTO:

@PFDesktop\ODMA\MHODMA\HBSR05.iManage.630175:1

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.



| | | |
|---|------------------------|------------------|
| UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> | Attorney Docket No. | 2479.21 013 |
| | First Named Inventor | John E. Hoffmann |
| | Express Mail Label No. | EV 214956817 US |

| |
|--|
| Title of Invention DIRECTIONAL ANTENNA PHYSICAL LAYER STEERING FOR WLAN |
|--|

| | |
|---|---|
| APPLICATION ELEMENTS MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 |
|---|---|

| | |
|---|--|
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form <i>(Submit an original and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Specification Total Pages [18] <i>Both the claims and the abstract must start on a new page (For information on the preferred arrangement, see MPEP 608.01(a))</i> 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) Total Sheets [14] <input checked="" type="checkbox"/> Fig. of the Drawings for Publication [12] <input type="checkbox"/> No Figure to be Published 4. <input checked="" type="checkbox"/> Oath or Declaration Total Pages [4] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 C.F.R. 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b). 5. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program <i>(Appendix)</i> 6. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a.-c. are required) a. <input type="checkbox"/> Computer Readable Form (CRF) i. <input type="checkbox"/> Computer Readable Form (CRF) ii. <input type="checkbox"/> Transfer Request (37 CFR 1.821(e)) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper [] Pages c. <input type="checkbox"/> Statements verifying identity of above copies | ACCOMPANYING APPLICATION PARTS 7. <input type="checkbox"/> Assignment Papers (cover sheet & documents) Name of Assignee <u>IPR Licensing, Inc.</u> City & State: <u>Wilmington, DE</u> 8. <input checked="" type="checkbox"/> Copy of 37 CFR 3.73(b) <input checked="" type="checkbox"/> Cpy of Power of (when there is an assignee) Attorney 9. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 10. <input type="checkbox"/> Information Disclosure Statement <i>(PTO-1449)</i> <input type="checkbox"/> Copies of foreign patent documents, publications, and other information 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard 13a. <input type="checkbox"/> Foreign Priority Claim under 35 U.S.C. § 119 or 365 13b. <input type="checkbox"/> Certified Copy of Priority Document(s) 14. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 15. <input checked="" type="checkbox"/> Remarks / Change of Correspondence Address 16. <input type="checkbox"/> Small Entity Statement(s) 17. <input checked="" type="checkbox"/> Other Copy of Petition and Transmittal of <u>Declaration along with Exhibits A & B from prior appln.</u> _____ _____ |
|---|--|

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 10/675,583

Prior application information: Examiner: Gregory C. Issing Group Art Unit: 3662

The entire disclosure of the prior application is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference.
(Add standard Related Applications section with incorporation by reference to specification or update same).

| 19. CORRESPONDENCE ADDRESS | | | | | |
|----------------------------|---|-----------|----------------|----------|----------------|
| NAME | Customer No. 021005 | | | | |
| | HAMILTON, BROOK, SMITH & REYNOLDS, P.C. | | | | |
| ADDRESS | 530 Virginia Road, P.O. Box 9133 | | | | |
| CITY | Concord | STATE | MA | ZIP CODE | 01742-9133 |
| COUNTRY | USA | TELEPHONE | (978) 341-0036 | FAX | (978) 341-0136 |

| | | | |
|---------------------------------------|----------------------|-------------|--------|
| Signature | | Date | 6/9/06 |
| Submitted by Typed or Printed Name | Michael J. Badzinski | Reg. Number | 51,425 |

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(1909-1984)

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MARY LOU WAKIMURA
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TROY T. SVIKL
A. CRISTINA TAYLOR*
DARRELL L. WONG
JOSEPH C. ZUCCHERO
* NOT ADMITTED IN MASS.

OF COUNSEL
ELIZABETH W. MATA

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MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN
ADMINISTRATIVE DIRECTOR
BARBARA J. FORQUE
ADMINISTRATOR OF
PATENT AND
TRADEMARK PRACTICE



October 22, 2003

Mr. George Rodney Nelson, Jr.
207 Sykes Loop Drive
Merritt Island, Florida 32953

Mr. John A. Regnier
1621 Henley Road, N.W.
Palm Bay, Florida 32907

Re: Title: "Directional Antenna Physical Layer Steering for WLAN"
Your Reference No.: TAN02-41
HBSR Docket No.: 2479.2179-002

Gentlemen:

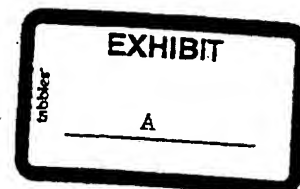
Enclosed is a copy of the U.S. Patent Application which was filed in the U.S. Patent and Trademark Office on September 30, 2003.

Also enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, each inventor should note the following:

1. Inventorship: Only persons who have made an inventive contribution to the conception of at least one of the claims in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.



October 22, 2003

Page 2

2. Enablement: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.

3. Best Mode: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that each inventor carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration are correct. If they are not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

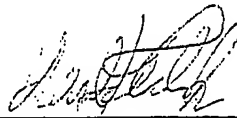
If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return all pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By



David J. Thibodeau, Jr.

DJT/nzk(amg)

Enclosures

cc: Ms. Kathy Renyo

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Directional Antenna Physical Layer Steering for WLAN

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 30, 2003 as United States Application Number 10/675,583.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

[] and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

| <u>Prior Foreign Application(s)</u> | | | Priority Not Claimed | Certified Copy Filed? | |
|-------------------------------------|-----------|------------------------|----------------------------|--------------------------|-----|
| | | | | YES | NO |
| (Number) | (Country) | (Day/Month/Year filed) | [] | [] | [] |
| (Number) | (Country) | (Day/Month/Year filed) | [] | [] | [] |
| (Number) | (Country) | (Day/Month/Year filed) | [] | [] | [] |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor John E. Hoffmann

Inventor's Signature _____ Date _____

Residence 516 Latania Palm Drive

Indialantic, FL 32903

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any George Rodney Nelson, Jr.

Inventor's Signature _____ Date _____

Residence 207 Sykes Loop Drive

Merritt Island, FL 32953

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any John A. Regnier

Inventor's Signature _____ Date _____

Residence 1621 Henlev Road, N.W.

Palm Bay, FL 32907

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Kevin P. Johnson

Inventor's Signature _____ Date _____

Residence 605 Pinehurst Circle N.E.

Palm Bay, FL 32905

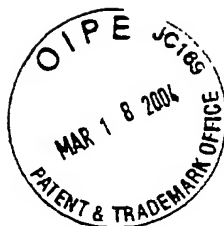
Citizenship USA

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URGENT

REMINDER

2-3-04

October 22, 2003

MUNROE H. HAMILTON
(1906-1984)

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
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EXHIBIT

B

October 22, 2003

Page 2

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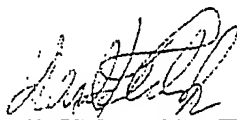
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Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By



David J. Thibodeau, Jr.

DJT/nzk(amg)

Enclosures

cc: Ms. Kathy Renyo

\\ODMA\MHODMA\Manage\428516;1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

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I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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| <u>Prior Foreign Application(s)</u> | | | Priority Not Claimed | Certified Copy Filed? | |
|-------------------------------------|------------------|-------------------------------|----------------------------|--------------------------|-----|
| | | | | YES | NO |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | [] | [] | [] |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | [] | [] | [] |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | [] | [] | [] |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor John E. Hoffmann

Inventor's Signature _____ Date _____

Residence 516 Latania Palm Drive

Indialantic, FL 32903

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any George Rodney Nelson, Jr.

Inventor's Signature _____ Date _____

Residence 207 Svkes Loop Drive

Merritt Island, FL 32953

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any John A. Regnier

Inventor's Signature _____ Date _____

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Palm Bay, FL 32907

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Kevin P. Johnson

Inventor's Signature _____ Date _____

Residence 605 Pinehurst Circle N.E.

Palm Bay, FL 32905

Citizenship USA

Mailing Address Same as above



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United States Patent and Trademark Office
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HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD MA 01742-9133

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MAY 12 2004

OFFICE OF PETITIONS

In re Application of :
John E. Hoffmann, George :
Rodney Nelson, Jr., John A. : DECISION GRANTING PETITION
Regnier and Kevin P. Johnson : UNDER 37 CFR 1.47(a)
Application No. 10/675,583 :
Filed: September 30, 2003 :
Title: DIRECTIONAL ANTENNA
PHYSICAL LAYER STEERING FOR
WLAN

This is in response to the "Petition Under 37 CFR 1.47(a),"
filed March 18, 2004.

The petition is granted.

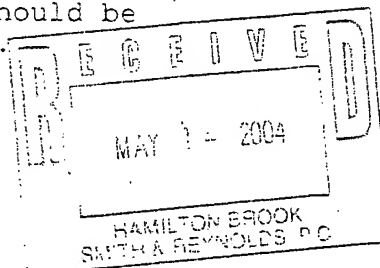
Petitioner has shown that the non-signing inventor has
refused to join in the filing of the above-identified
application.

The above-identified application and papers have been
reviewed and found in compliance with 37 CFR 1.47(a). This
application is hereby accorded Rule 1.47(a) status. As
provided in Rule 1.47(c), this Office will forward notice of
this application's filing to the non-signing inventor at the
address given in the Declaration. Notice of the filing of
this application will also be published in the Official
Gazette.

The file is being forwarded to the Office of Initial Patent
Examination for further processing.

Telephone inquiries regarding this decision should be
directed to the undersigned at (703) 306-9200.

Edward J. Tannouse
Senior Petitions Attorney
Office of Petitions
United States Patent and Trademark Office





UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

GEORGE RODNEY NELSON, JR.
207 SYKES LOOP DRIVE
MERRITT ISLAND, FLORIDA 32953

COPY MAILED

MAY 12 2004

OFFICE OF PETITIONS

In re Application of
John E. Hoffmann, George Rodney Nelson, Jr., John A. Regnier and
Kevin P. Johnson
Application No. 10/675,583
Filed: September 30, 2003
For: DIRECTIONAL ANTENNA PHYSICAL LAYER STEERING FOR WLAN

Dear GEORGE RODNEY NELSON, JR.:

You are named as a joint inventor in the above identified United States patent application, filed under the provisions of 35 U.S.C. 116 (United States Code), and 37 CFR 1.47(a), Rules of Practice in Patent Cases. Should a patent be granted on the application you will be designated therein as a joint inventor.

As a named inventor you are entitled to inspect any paper in the file wrapper of the application, order copies of all or any part thereof (at a prepaid cost per 37 CFR 1.19) or make your position of record in the application. Alternatively, you may arrange to do any of the preceding through a registered patent attorney or agent presenting written authorization from you. If you care to join the application, counsel of record (see below) would presumably assist you. Joining in the application would entail the filing of an appropriate oath or declaration by you pursuant to 37 CFR 1.63.

Telephone inquiries regarding this communication should be directed to Petitions Attorney Edward Tannouse at (703) 306-9200. Requests for information regarding your application should be directed to the File Information Unit at (703) 308-2733. Information regarding how to pay for and order a copy of the application, or a specific paper in the application, should be directed to Certification Division at (703) 308-9726 or 1(800) 972-6382 (outside the Washington D.C. area).

Edward J. Tannouse
Petitions Attorney
Office of Petitions
United States Patent and Trademark Office

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
530 VIRGINIA ROAD
P.O. BOX 9133
CONCORD MA 01742-9133



DOCKET NO. 2479.2119-302

COPY FOR CONTINUING APPLICATION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application☐ Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Directional Antenna Physical Layer Steering for WLAN

the specification of which (check one)

- ☐ is attached hereto.
- ☒ was filed on September 30, 2003 as United States Application Number 10/675,583.
- ☐ was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.]-[OPTION and assigned United States Application No. []].
- ☐ and was amended on [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

| <u>Prior Foreign Application(s)</u> | | | Priority Not Claimed | Certified Copy Filed? YES | NO |
|-------------------------------------|-----------|------------------------|----------------------------|---------------------------------|--------------------------|
| (Number) | (Country) | (Day/Month/Year filed) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year filed) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year filed) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor John E. Hoffmann

Inventor's Signature John E. Hoffmann

Date February 11, 2004

Residence 516 Latania Palm Drive

Indialantic, FL 32903

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any George Rodney Nelson, Jr.

Inventor's Signature _____

Date _____

Residence 207 Sykes Loop Drive

Merritt Island, FL 32953

Citizenship USA

Mailing Address Same as above

Full name of third joint

inventor, if any John A. Regnier

Inventor's Signature _____

Date _____

Residence 1621 Henley Road, N.W.

Palm Bay, FL 32907

Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Kevin P. Johnson

Inventor's Signature Kevin P. Johnson

Date 11 Feb '04

Residence 605 Pinehurst Circle N.E.

Palm Bay, FL 32905

Citizenship USA

Mailing Address Same as above



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Directional Antenna Physical Layer Steering for WLAN

the specification of which (check one)

[] is attached hereto.

[X] was filed on September 30, 2003 as United States Application Number 10/675,583.

[] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].

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| <u>Prior Foreign Application(s)</u> | | | Priority Not Claimed | Certified Copy Filed? YES NO | |
|-------------------------------------|-----------------|------------------------------|----------------------------|------------------------------------|-----|
| (Number) _____ | (Country) _____ | (Day/Month/Year filed) _____ | [] | [] | [] |
| (Number) _____ | (Country) _____ | (Day/Month/Year filed) _____ | [] | [] | [] |
| (Number) _____ | (Country) _____ | (Day/Month/Year filed) _____ | [] | [] | [] |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor John E. Hoffmann

Inventor's Signature _____ Date _____

Residence 516 Latania Palm Drive

Indianapolis, FL 32903

Citizenship USA

Mailing Address Same as above

Full name of second joint

inventor, if any George Rodney Nelson, Jr.

Inventor's Signature _____ Date _____

Residence 207 Sykes Loop Drive

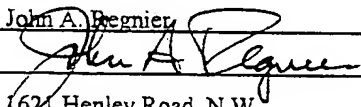
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inventor, if any John A. Begnier

Inventor's Signature  Date 12/3/03

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Citizenship USA

Mailing Address Same as above

Full name of fourth joint

inventor, if any Kevin P. Johnson

Inventor's Signature _____ Date _____

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Citizenship USA

Mailing Address Same as above